

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-16 (canceled)

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Claim 17 (currently amended): A broadband communication system, comprising:
a plurality of cordless communication devices connected to one another for cordless communication with at least one communication terminal within a communication cell; ~~and~~
the cordless communication devices being connected to a power supply network and designed for broadband data transmission via the power supply network; and
a control unit configured to control data communication between the cordless communication devices and produce a connection to an external communication network.

Claim 18 (original): The communication system according to claim 17 wherein the cordless communication devices are designed for cordless data transmission via radio.

Claim 19 (original): The communication system according to claim 17 wherein the cordless communication devices are designed for cordless data transmission via infrared radiation.

Claim 20 (original): The communication system according to claim 19 wherein the data transmission between the cordless communication devices and the communication terminal occurs with amplitude modulation of an infrared base band.

Claim 21 (original): The communication system according to claim 17 wherein the data transmission between the cordless communication device and the communication terminal occurs by higher-grade digital modulation.

Claim 22 (previously presented): The communication system according to claim 19 wherein the infrared radiation has a wavelength from 800 nm to 1000 nm.

Claim 23 (original): The communication system according to claim 19 wherein the infrared radiation has a wavelength from 1200 nm to 1400 nm.

Claim 24 (original): The communication system according to claim 19 wherein a source of the infrared radiation comprises a surface-emitting semiconductor laser.

Claim 25 (canceled)

Claim 26 (canceled)

Claim 27 (currently amended): The communication system according to claim 17 26 wherein the connection to the external communication network is produced with at least one of a coaxial cable and an optical fiber cable.

Claim 28 (currently amended): The communication system according to claim 17 26 wherein the connection to the external communication network occurs via a radio connection.

Claim 29 (original): The communication system according to claim 17 wherein the cordless communication devices are designed for data transmission via at least one of a 230 volt and a 110 volt power supply network.

Claim 30 (original): The communication system according to claim 17 wherein the communication cell is formed by a room in a building.

Claim 31 (original): The communication system according to claim 17 wherein the cordless communication devices are designed to be screwed into an incandescent bulb socket.

Claim 32 (original): The communication system according to claim 31 wherein at least one of the cordless communication devices comprises its own incandescent bulb socket.

Claim 33 (original): A broadband communication system, comprising:

at least first and second cordless communication devices in respective first and second communication cells separated from each other by a wall, the first and second communication devices being connected to each other via a power supply network permitting broadband data transmission via the power supply network between the first and second cordless communication devices; and

at least one communication terminal within at least one of said first and second communication cells which communicates with at least one of the first and second cordless communication devices depending upon which cell the at least one cordless communication device is located in.

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Claim 34 (original): The system according to claim 33 wherein at least one of the cordless communication devices is plugged into a power outlet of the power supply network.


Claim 35 (original): The system according to claim 33 wherein at least one of the cordless communication devices is screwed into a light bulb receptacle of the power supply network.

Claim 36 (original): The system according to claim 33 wherein the broadband data transmission occurs with the at least one communication terminal at a frequency greater than 10 GHz.

Claim 37 (original): A method for broadband communication, comprising the steps of:
providing at least first and second cordless communication devices located in respective first and second communication cells;

connecting the first and second cordless communication devices together via a power supply network which also supplies power to the first and second communication devices;

making broadband data transmissions between the first and second cordless communication devices via the power supply network; and

 communicating with at least one communication terminal located within at least one of said first and second communication cells in a cordless fashion via the respective cordless communication device located in the respective communication cell.

Claim 38 (original): The method according to claim 37 including the step of communicating in cordless fashion with the at least one communication terminal at a frequency greater than 100 GHz.

Claim 39 (canceled)
